

WHAT IS CLAIMED IS:

1. An image forming apparatus, comprising:
 - a photoconductive body on which an electrostatic latent image can be formed;
 - a developing member that causes developer to adhere to the electrostatic latent image to develop the electrostatic latent image;
 - a developer-supplying member that supplies the developer to said developing member;
 - a current measuring section that measures a current flowing through at least one of said developing member and said developer-supplying member; and
 - a voltage-setting section that sets at least one of said developing member and said developer-supplying member to a corresponding one of first voltages, the first voltages being set in timed relation with development of the electrostatic latent image.
2. The apparatus according to Claim 1, wherein said current measuring section measures the current that flows through said developing member, the current being measured in at least one of a non-image forming mode where the electrostatic latent image is not formed on said photoconductive body and a solid-image forming mode where a solid electrostatic latent image is formed on a substantially entire surface said photoconductive body.
3. The apparatus according to Claim 1, wherein said current measuring section measures the current that flows through said developer-supplying member, the current being measured in at least one of a non-image forming mode where the electrostatic latent image is not formed on said photoconductive body and a solid-image forming mode where a solid electrostatic latent image is formed on a substantially entire surface of said photoconductive body.

4. The apparatus according to Claim 2, wherein said current measuring section measures the current both in the non-image forming mode and in the solid-image forming mode.

5. The apparatus according to Claim 3, wherein said current measuring section measures the current both in the non-image forming mode and in the solid-image forming mode.

6. The apparatus according to Claim 4, wherein said voltage setting section sets the corresponding one of the first voltages based on a difference in the current between the non-image forming mode and the solid-image forming mode.

7. The apparatus according to Claim 2, further comprising a charging member that receives a second voltage from said voltage setting section and charges said photoconductive body;

wherein the current is measured in the non-image forming mode;

wherein when the current is larger than a predetermined value, said voltage setting section either increases an absolute value of the second voltage by a predetermined first value or decreases an absolute value of the corresponding one of the first voltages by a predetermined second value.

8. The apparatus according to Claim 3, further comprising a charging member that receives a second voltage from said voltage setting section and charges said photoconductive body;

wherein the current is measured in the non-image forming mode;

wherein when the current is larger than a predetermined value, said voltage setting section either increases an absolute value of the second voltage by a predetermined first value or decreases an absolute value of the corresponding one of the first voltages by a predetermined second value.

9. The apparatus according to Claim 1, further comprising a

charging member that receives a second voltage from said voltage setting section and charges said photoconductive body;

wherein said current measuring section measures a first current that flows through said developing member and a second current that flows through said developer-supplying member, the first current and the second current being measured in the non-image forming mode;

wherein when the current is larger than a predetermined value, said voltage setting section either increases an absolute value of the second voltage by a predetermined first value or decreases an absolute value of each of the first voltages by a corresponding predetermined second value.